

**Literature Search Strategy: Safe Staffing in ED**

Database 1: N= 11062 (Medline MEIP Embase, Econlit, Cochrane, CRD)

Database 2: N=5070 in Cinahl database.

(separate because of download problems & system errors - not wishing to corrupt main database if there were problems).

Total N=16132 – before de-duplication.

Keywords added (as listed in column 1 below: per database name & also EMERGENCY NURSING SAFE STAFFING SEARCH KW )

Databases, Host Years Searched Keywords Added	Search Strategy	Results
Ovid MEDLINE(R) 1946 to August Week 1 2014 Limited to 1994- 2014 Searched 16/08/2014 Keywords: MEDLINE EMERGENCY NURSING SAFE STAFFING SEARCH KW	<ol style="list-style-type: none"> <li>1 Nursing Staff, Hospital/ (38435)</li> <li>2 Nursing Service Hospital/ (11693)</li> <li>3 1 or 2 (47816)</li> <li>4 exp Nurses/ (71171)</li> <li>5 (nurse or nurses or nursing).tw. (318872)</li> <li>6 (RN or "RNs" or "RN's").tw. (9147)</li> <li>7 Nurses' Aides/ (3599)</li> <li>8 ("healthcare assistant*" or "health care assistant*").tw. (354)</li> <li>9 Nursing Administration Research/ (2253)</li> <li>10 Nursing Audit/ (2979)</li> <li>11 Models Nursing/ (11078)</li> <li>12 or/4-11 (360241)</li> <li>13 exp Hospitals/ (206502)</li> <li>14 exp Hospital Units/ (79507)</li> <li>15 hospital*.tw. (789951)</li> <li>16 or/13-15 (930678)</li> <li>17 12 and 16 (66472)</li> <li>18 3 or 17 (100045)</li> <li>19 Emergency Service, Hospital/ (44243)</li> <li>20 ("emergency department*" or "emergency room*" or "emergency unit*" or "emergency ward*" or "emergency</li> </ol>	5277

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	<p>service*).tw. (60074)</p> <p>21 ("accident and emergency" or "A&amp;E").tw. (14641)</p> <p>22 or/19-21 (90505)</p> <p>23 18 and 22 (4427)</p> <p>24 Emergency Nursing/ (5713)</p> <p>25 ((emergency or "A&amp;E") adj5 nurs*).tw. (3369)</p> <p>26 24 or 25 (7797)</p> <p>27 23 or 26 (10832)</p> <p>28 (skill* adj1 mix*).tw. (636)</p> <p>29 skillmix*.tw. (6)</p> <p>30 (staffmix* or "staff mix*").tw. (78)</p> <p>31 (specialism* or specialist*).tw. (57030)</p> <p>32 (experience* or inexperience*).tw. (661839)</p> <p>33 (casemix or "case mix").tw. (4481)</p> <p>34 staffing.tw. (8736)</p> <p>35 understaff*.tw. (378)</p> <p>36 "under staff*").tw. (38)</p> <p>37 "Personnel Staffing and Scheduling"/ or "Personnel Staffing and Scheduling Information Systems"/ (14608)</p> <p>38 ("teamwork*" or "team work*").tw. (6820)</p> <p>39 ((staff* or team) adj3 (level* or ratio* or management or resourc* or model* or program* or policy or policies or number* or mix* or rota* or rosta* or roster* or schedul* or overtime or supervision or supervisory or administration or administrative or organization or organisation or turnover or "co-ordination")).tw. (16479)</p> <p>40 ((staff* or team*) adj3 (experienced or inexperienced or competen* or sufficient* or sufficiency or adequate* or knowledge or adequac* or target* or insufficient* or insufficienc* or inadequate* or inadequac* or short or shortage or efficient* or efficienc* or inefficien*)).tw. (6516)</p> <p>41 Health Manpower/ (11371)</p> <p>42 manpower.tw,fs. (61142)</p>	
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	<p>43 Personnel Turnover/ (3953)</p> <p>44 (workload* or workforce* or workflow* or workplace or shift or shiftwork* or shifts or overtime or capacity).tw. (543526)</p> <p>45 Workload/ (15816)</p> <p>46 Workplace/og, st [Organization &amp; Administration, Standards] (2276)</p> <p>47 ("under pressure" or stress* or burnout or "burnt out").tw. (480255)</p> <p>48 "care left undone".tw. (4)</p> <p>49 ("missed care" or "missing care" or "deficit in care").tw. (36)</p> <p>50 ("never event*" or "preventable event*" or "serious event*" or "serious adverse" or "preventable death*").tw. (15243)</p> <p>51 maladministrat*.tw. (16)</p> <p>52 ("medication error*" or "drug error*").tw. (3309)</p> <p>53 ("risk of harm" or "risk factor*").tw. (332461)</p> <p>54 (patient* adj1 safety).tw. (13691)</p> <p>55 ("time to" or timeliness).tw. (1856115)</p> <p>56 Time Factors/ (1017265)</p> <p>57 ("safe care" or safeguard* or "unsafe care" or negligen*).tw. (9627)</p> <p>58 safeguard*.tw. (5889)</p> <p>59 ("length of stay" or "duration of stay").tw. (27598)</p> <p>60 (bed* adj2 number*).tw. (1058)</p> <p>61 ("bed block*" or "bed occupancy").tw. (536)</p> <p>62 (patient* adj2 flow*).tw. (4988)</p> <p>63 (complex* adj2 patient*).tw. (7996)</p> <p>64 "patient* acuity".tw. (442)</p> <p>65 "patient* dependency".tw. (179)</p> <p>66 "patient outcome*").tw. (22802)</p> <p>67 "number of attendances".tw. (75)</p>	
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	<p>68 "attendance pattern*".tw. (193)          69 "waiting time*".tw. (5770)          70 (crowding or crowded or overcrowding or overcrowded).tw. (10571)          71 "seasonal variation".tw. (6338)          72 (environment* or layout).tw. (534175)          73 health facility environment/ or health facility administration/ or health facility size/ (7582)          74 ("organizational culture*" or "organizational structure*").tw. (3460)          75 organizational culture/ (13146)          76 (model* adj2 triage).tw. (87)          77 (triage adj (system* or scoring)).tw. (484)          78 Triage/ma, mt, og, st [Manpower, Methods, Organization &amp; Administration, Standards] (3580)          79 (patient* adj1 death*).tw. (4249)          80 (patient* adj1 mortality).tw. (3285)          81 (cost* or economic*).tw. (440683)          82 Knowledge Management/ (173)          83 Clinical Competence/ (66286)          84 Professional Competence/ (20507)          85 Accreditation/ (11536)          86 Safety Management/ (16668)          87 Management Audit/ (2390)          88 Quality Assurance, Health Care/ or Quality Improvement/ (54987)          89 Health Plan Implementation/ (3946)          90 Education, Continuing/ (7913)          91 Mentors/ (7613)          92 mentor*.tw. (7506)          93 Inservice Training/ (17395)          94 Problem Solving/ (21408)          95 Workflow/ (983)</p>	
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	<p>96 Efficiency, Organizational/ or Efficiency/ (29526)            97 Program Evaluation/ or Program Development/ (62939)            98 Patient Outcome Assessment/ or "Outcome Assessment (Health Care)"/ or "Outcome and Process Assessment (Health Care)"/ (72633)            99 Practice Guidelines as Topic/ (81751)            100 Documentation/ (14150)            101 Interprofessional Relations/ (44021)            102 (nursing and hours and patient and day).tw. (358)            103 NHPPD.tw. (7)            104 (nurs* and hours and care).tw. (3630)            105 (nurs* and work* and hours).tw. (1976)            106 (nurs* adj3 "patient* ratio*").tw. (272)            107 "nurse-patient-ratio".tw. (56)            108 (nurs* adj3 "patient* number*").tw. (3)            109 (nurs* and "whole time equivalent*").tw. (27)            110 (nurs* adj5 (temporary or bank or agency)).tw. (722)            111 (nurs* and adequate* and staff*).tw. (1327)            112 (nurs* and inadequate* and staff*).tw. (721)            113 ("nurs* unit*" and (organi?ation or characteristic* or outcome* or level*)).tw. (451)            114 (nurs* and deployment).tw. (325)            115 (nurs* and staff* and burnout).tw. (382)            116 (nurs* and staff* and stress).tw. (1152)            117 (nurs* and staff* and experience*).tw. (5619)            118 (nurs* and staff* and inexperience*).tw. (86)            119 (nurs* and staff* and fatigue).tw. (143)            120 (nurs* and staff* and practice).tw. (6483)            121 (nurs* and staff* and policy).tw. (1431)            122 (nurs* and staff* and policies).tw. (877)            123 (nurs* and staff* and speciali?ation).tw. (59)            124 (nurs* and staff* and audit*).tw. (828)            125 (nurs* and (toolkit* or "tool kit*")).tw. (125)</p>	
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	<p>126 (nurs* and (tool or tools)).tw. (10395)          127 (nurs* and magnet and staff*).tw. (141)          128 "magnet hospital*".tw. (241)          129 or/28-101 (5244134)          130 27 and 129 (6097)          131 or/102-128 (28804)          132 22 and 131 (1367)          133 130 or 132 (6512)          134 (comment or editorial or letter).pt. (1274658)          135 133 not 134 (6242)          136 limit 135 to (english language and yr="1994 -Current") (5277)</p>	
<p>Ovid MEDLINE(R) In-Process &amp; Other Non-Indexed Citations August 15, 2014          MEIP          EMERGENCY NURSING SAFE STAFFING SEARCH          KW          Searched 16/08/2014</p>	<p>As per Medline</p>	<p>348</p>
<p>Embase Ovid 1974 to 2014 August 18          Searched 19/08/14          Keywords Added:          EMBASE          EMERGENCY NURSING SAFE STAFFING SEARCH</p>	<p>1 emergency nursing/ (5158)          2 (emergency adj5 nurs*).tw. (4037)          3 1 or 2 (8082)          4 (skill* adj1 mix*).tw. (799)          5 skillmix*.tw. (7)          6 (staffmix* or "staff mix*").tw. (88)          7 (specialism* or specialist*).tw. (87618)          8 inexperience*.tw. (5466)</p>	<p>5313</p>

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KW	<p>9 (casemix or "case mix").tw. (5764)</p> <p>10 staffing.tw. (11656)</p> <p>11 understaff*.tw. (485)</p> <p>12 "under staff".tw. (48)</p> <p>13 teamwork/ (11713)</p> <p>14 ("teamwork*" or "team work*").tw. (9969)</p> <p>15 ((staff* or team) adj3 (level* or ratio* or management or resourc* or model* or program* or policy or policies or number* or mix* or rota* or rosta* or roster* or schedul* or overtime or supervision or supervisory or administration or administrative or organization or organisation or turnover or "co-ordination")).tw. (23811)</p> <p>16 ((staff* or team*) adj3 (experienced or inexperienced or competen* or sufficient* or sufficiency or adequate* or knowledge or adequac* or target* or insufficient* or insufficienc* or inadequate* or inadequac* or short or shortage or efficient* or efficienc* or inefficien*)).tw. (10014)</p> <p>17 manpower.tw. (7699)</p> <p>18 health care manpower/ or manpower planning/ (10674)</p> <p>19 (workload* or workforce* or workflow* or workplace or shift or shiftwork* or shifts or overtime or capacity).tw. (692852)</p> <p>20 Workload/ (28485)</p> <p>21 time management/ or turnaround time/ or time to treatment/ or turnover time/ or working time/ (21097)</p> <p>22 organization/ or organizational efficiency/ (109840)</p> <p>23 job satisfaction/ (22030)</p> <p>24 work environment/ (16670)</p> <p>25 ("under pressure" or stress* or burnout or "burnt out").tw. (639039)</p> <p>26 "care left undone".tw. (6)</p> <p>27 ("missed care" or "missing care" or "deficit in care").tw. (42)</p>	
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	<p>28 ("never event*" or "preventable event*" or "serious event*" or "serious adverse" or "preventable death*").tw. (24296)</p> <p>29 maladministrat*.tw. (22)</p> <p>30 ("medication error*" or "drug error*").tw. (5434)</p> <p>31 medication error/ (12563)</p> <p>32 ("risk of harm" or "risk factor*").tw. (477548)</p> <p>33 (patient* adj1 safety).tw. (21038)</p> <p>34 timeliness.tw. (3114)</p> <p>35 ("safe care" or safeguard* or "unsafe care" or negligen*).tw. (12822)</p> <p>36 "length of stay".tw. (45496)</p> <p>37 "duration of stay".tw. (2022)</p> <p>38 (bed* adj2 number*).tw. (1705)</p> <p>39 ("bed block*" or "bed occupancy").tw. (796)</p> <p>40 (patient* adj2 flow*).tw. (7217)</p> <p>41 (complex* adj2 patient*).tw. (12121)</p> <p>42 "patient* acuity".tw. (609)</p> <p>43 patient acuity/ (174)</p> <p>44 "patient* dependency".tw. (205)</p> <p>45 "patient outcome*".tw. (34932)</p> <p>46 patient safety/ (54544)</p> <p>47 outcome assessment/ (249514)</p> <p>48 "number of attendances".tw. (110)</p> <p>49 "attendance pattern*".tw. (227)</p> <p>50 "waiting time*".tw. (8772)</p> <p>51 (crowding or crowded or overcrowding or overcrowded).tw. (13160)</p> <p>52 "crowding (area)"/ (375)</p> <p>53 "seasonal variation".tw. (8653)</p> <p>54 (environment* or layout).tw. (715129)</p> <p>55 ("organi?ational culture*" or "organi?ational structure*").tw. (4485)</p>	
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56	(model* adj2 triage).tw. (113)	
57	(triage adj (system* or scoring)).tw. (722)	
58	(patient* adj1 death*).tw. (6453)	
59	(patient* adj1 mortality).tw. (5433)	
60	(cost* or economic*).tw. (618066)	
61	Knowledge Management/ (859)	
62	Clinical Competence/ (42776)	
63	Accreditation/ (27022)	
64	continuing education/ (27228)	
65	professional development/ or professional competence/ or professional knowledge/ or professional standard/ (61491)	
66	total quality management/ or "quality of nursing care"/ or quality control procedures/ (25995)	
67	practice guideline/ (238485)	
68	medical documentation/ (20823)	
69	decision support system/ (13247)	
70	(mentor* or coaching).tw. (13298)	
71	Inservice Training/ (13784)	
72	Problem Solving/ (26431)	
73	Workflow/ (4265)	
74	patient scheduling/ (934)	
75	Program Evaluation/ or Program Development/ (19069)	
76	health care quality/ or personnel management/ or "organization and management"/ (534065)	
77	"magnet hospital*".tw. (249)	
78	magnet hospital/ (17)	
79	standard/ (334056)	
80	or/4-79 (4335729)	
81	3 and 80 (4387)	
82	(nursing and hours and patient and day).tw. (671)	
83	NHPPD.tw. (6)	
84	(nurs* and hours and care).tw. (5847)	
85	(nurs* and work* and hours).tw. (3092)	

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	<p>86 (nurs* adj3 "patient* ratio*").tw. (350)</p> <p>87 "nurse-patient-ratio".tw. (78)</p> <p>88 (nurs* adj3 "patient* number*").tw. (5)</p> <p>89 (nurs* and "whole time equivalent*").tw. (48)</p> <p>90 (nurs* adj5 (temporary or bank or agency)).tw. (811)</p> <p>91 (nurs* and adequate* and staff*).tw. (2020)</p> <p>92 (nurs* and inadequate* and staff*).tw. (1077)</p> <p>93 ("nurs* unit*" and (organi?ation or characteristic* or outcome* or level*)).tw. (619)</p> <p>94 (nurs* and deployment).tw. (444)</p> <p>95 (nurs* and staff* and burnout).tw. (525)</p> <p>96 (nurs* and staff* and stress).tw. (1642)</p> <p>97 (nurs* and staff* and experience*).tw. (8350)</p> <p>98 (nurs* and staff* and inexperience*).tw. (123)</p> <p>99 (nurs* and staff* and fatigue).tw. (240)</p> <p>100 (nurs* and staff* and practice).tw. (8978)</p> <p>101 (nurs* and staff* and policy).tw. (2076)</p> <p>102 (nurs* and staff* and policies).tw. (1204)</p> <p>103 (nurs* and staff* and speciali?ation).tw. (92)</p> <p>104 (nurs* and staff* and audit*).tw. (1879)</p> <p>105 (nurs* and (toolkit* or "tool kit*")).tw. (239)</p> <p>106 (nurs* and (tool or tools)).tw. (15330)</p> <p>107 (nurs* and magnet and staff*).tw. (161)</p> <p>108 or/82-107 (41302)</p> <p>109 *emergency health service/ or *emergency ward/ (51096)</p> <p>110 ("emergency department*" or "emergency room*" or "emergency unit*" or "emergency ward*" or "emergency service*").tw. (91789)</p> <p>111 "accident and emergency".tw. (4735)</p> <p>112 or/109-111 (122630)</p> <p>113 108 and 112 (2325)</p> <p>114 (emergency and nurs* and staffing).tw. (326)</p>	
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	<p>115 (emergency and RN* and staffing).tw. (22)          116 81 or 113 or 114 or 115 (6383)          117 limit 116 to (english language and yr="1994 -Current") (5539)          118 limit 117 to (editorial or letter) (226)          119 117 not 118 (5313)</p>	
<p>Cinahl          (CINAHL Plus with Full Text          (Cumulative Index of Nursing and Allied Health Literature)           Searched          22/08/2014           Internal server errors 3 times running on first download – abandoned at record 3040. On re-entering database on 26/08/2014 I went through many screens to return to the correct page for download and got an Ebsco system error again. Decided to limit the search to</p>	<p>Limited to source type academic journal = 5070          S88 S5 AND S87 <b>Limiters</b> - Published Date: 19940101-20141231; Language: English; Publication Type: Academic Journal, Clinical Trial, Critical Path, Journal Article, Meta Analysis, Meta Synthesis, Nursing Interventions, Practice Guidelines, Protocol, Randomized Controlled Trial, Research, Research Instrument, Research Instrument Utilization, Research Instrument Validation, Standards, Systematic Review, Teaching Materials           (5,822) View Details Edit Interface - EBSCOhost Research Databases          Database - CINAHL Plus with Full Text          S87 S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21 OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55 OR S56 OR S57 OR S58 OR S59 OR S60 OR S61 OR S62 OR S63 OR S64 OR S65 OR S66 OR S67 OR S68 OR S69 OR S70 OR S71 OR S72 OR S73 OR S74 OR S75 OR S76 OR S77 OR S78 OR S79 OR S80 OR S81 OR S82 OR S83 OR S84 OR S85 OR S86 S6 OR S7 OR S8 OR S9 OR S10 OR S11 OR S12 OR S13 OR S14 OR S15 OR S16 OR S17 OR S18 OR S19 OR S20 OR S21</p>	<p>5070</p>

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<p>the whole year where the database had gone odd before and exported that set and de-duplicated it internally afterwards.</p>	<p>OR S22 OR S23 OR S24 OR S25 OR S26 OR S27 OR S28 OR S29 OR S30 OR S31 OR S32 OR S33 OR S34 OR S35 OR S36 OR S37 OR S38 OR S39 OR S40 OR S41 OR S42 OR S43 OR S44 OR S45 OR S46 OR S47 OR S48 OR S49 OR S50 OR S51 OR S52 OR S53 OR S54 OR S55 OR S56 OR S57 OR S58 OR S59 OR S60 OR S61 OR S62 OR S63 OR S64 OR S65 OR S66 OR S67 OR S68 OR S69 OR S70 OR S71 OR S72 OR S73 OR S74 OR S75 OR S76 OR S77 OR ...Show Less Search modes - Boolean/Phrase View Results (1,314,699)</p> <p>S86 (MH "Magnet Hospitals") (1,978)  S85 TX (staff* N5 (bank or agency or temporary (6,488)  S84 TX "whole time equivalent" (611)  S83 TX ("tool kit*" or toolkit*) (8,573)  S82 (MH "Burnout, Professional") (4,976)  S81 AB "patient ratio*" (297)  S80 TX "nurse-patient-ratio" (2,787)  S79 (MH "Nurse-Patient Ratio") (2,248)  S78 AB (nurs* and hours and patient* and day (836)  S77 TX NHPPD (82) S76 (MH "Documentation") (21,125)  S75 (MH "Practice Guidelines") (45,551)  S74 (MH "Program Development") OR (MH "Program Planning") OR (MH "Program Implementation") OR (MH "Program Evaluation") (48,697)  S73 (MH "Organizational Efficiency") (6,624)  S72 TX mentor* (41,644)  S71 (MH "Mentorship") (9,159)  S70 (MH "Education, Nursing, Continuing (11,193)  S69 (MH "Nursing Audit") (849)  S68 (MH "Quality of Care Research") (1,073)  S67 (MH "Accreditation") OR (MH "Magnet Hospital Accreditation") (7,881)</p>	
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	<p>S66 (MH "Professional Competence") OR (MH "Clinical Competence") OR (MH "Competency Assessment") (36,651)</p> <p>S65 TX (cost* or economic*) (454,164)</p> <p>S64 (MH "Costs and Cost Analysis") OR (MH "Health Care Costs") OR (MH "Cost Benefit Analysis") OR (MH "Cost Savings") OR (MH "Nursing Costs") OR (MH "Health Facility Costs") OR (MH "Cost Control") Search modes -          Boolean/Phrase          View Results (69,526)</p> <p>S63 patient* N1 mortality (4,608)</p> <p>S62 TX patient* N1 death* (11,453)</p> <p>S61 TX (triage W1 (system* or scoring) (1,016)</p> <p>S60 TX model* N2 triage (144)</p> <p>S59 TX "outcome* assessment*" (27,583)</p> <p>S58 (MH "Outcome Assessment") (23,146)</p> <p>S57 TX ("organi?ational culture*" or "organi?ational structure*") (25,083)</p> <p>S56 (MH "Organizational Culture") (12,073)</p> <p>S55 TX (room* N5 (environment* or design* or layout*)) (4,918)</p> <p>S54 TX (unit* N5 (environment* or design* or layout*))          View Results (14,391)</p> <p>S53 TX (ward* N5 (environment* or design* or layout*)) (3,798)</p> <p>S52 (MH "Health Facility Environment") OR (MH "Work Environment") (21,983)</p> <p>S51 (MH "Hospital Design and Construction") OR (MH "Facility Design and Construction") (5,833)</p> <p>S50 TX "seasonal variation" (1,241)</p> <p>S49 TX (crowding or crowded or overcrowding or overcrowded) (10,535)</p> <p>S48 (MH "Crowding") (829)</p>	
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	<p>S47 TX "waiting time*" (8,345)</p> <p>S46 TX "attendance pattern*" (174)</p> <p>S45 TX "number of attendances" (104)</p> <p>S44 TX "patient* acuity" OR TX "patient* dependency" OR TX "patient* outcome*" (38,190)</p> <p>S43 TX (patient* N2 flow*) (7,133)</p> <p>S42 TX ("bed block*" or "bed occupancy") (3,642)</p> <p>S41 TX (bed* N2 number*) (4,033)</p> <p>S40 ("length of stay" or "duration of stay") (25,526)</p> <p>S39 (MH "Negligence") (3,912)</p> <p>S38 TX ("safe care" or safeguard* or "unsafe care" or negligen*) (29,608)</p> <p>S37 (MH "Time Factors") OR (MH "Turnaround Time") (101,008)</p> <p>S36 TX timeliness (4,735)</p> <p>S35 (MH "Patient Safety") (31,139)</p> <p>S34 TX patient* N1 safety (77,022)</p> <p>S33 (MH "Medication Errors") OR (MH "Health Care Errors") OR (MH "Treatment Errors") (18,277)</p> <p>S32 (MH "Risk Assessment") (51,349)</p> <p>S31 TX "risk of harm*" Search modes - Boolean/Phrase View Results (3,088)</p> <p>S30 TX ("medication error*" or "drug error*") (16,536)</p> <p>S29 TX maladministrat* (74)</p> <p>S28 TX ("never event*" or "preventable event*" or "serious event*" or "serious adverse" or "preventable death*") (11,241)</p> <p>S27 TX ("missed care" or "missing care" or "deficit in care") (117)</p> <p>S26 TX "care left undone" (21)</p> <p>S25 ("under pressure" or stress* or burnout or "burnt out") (114,567)</p> <p>S24 (MH "Work Environment") (17,975)</p>	
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	<p>S23 (MH "Workload") OR (MH "Workload Measurement") (10,145)</p> <p>S22 (workload* or workforce* or workflow* or workplace or shift or shiftwork* or shifts or overtime or capacity) (89,470)</p> <p>S21 (MH "Personnel Turnover") (3,022)</p> <p>S20 TX manpower (25,659)</p> <p>S19 (MH "Health Manpower") (1,908)</p> <p>S18 ((staff* or team*) N3 (experienced or inexperienced or competen* or sufficient* or sufficiency or adequate* or knowledge or adequac* or target* or insufficient* or insufficienc* or inadequate* or inadequac* or short or shortage or efficient* or efficienc* or inefficien*)) (4,888)</p> <p>S17 ((staff* or team) N3 (level* or ratio* or management or resourc* or model* or program* or policy or policies or number* or mix* or rota* or rosta* or roster* or schedul* or overtime or supervision or supervisory or administration or administrative or organization or organisation or turnover or "co-ordination")) (29,098)</p> <p>S16 TX teamwork* (24,400)</p> <p>S15 TX team W1 work* (10,845)</p> <p>S14 (MH "Teamwork") (9,924)</p> <p>S13 (MH "Personnel Staffing and Scheduling (22,280)</p> <p>S12 TX understaff* OR TX "under staff*" (4,393)</p> <p>S11 TX staffing (51,205)</p> <p>S10 TX casemix* OR TX "case mix*" (4,901)</p> <p>S9 TX experience* OR TX inexperience* (481,357)</p> <p>S8 TX staffmix* OR TX "staff mix*" (766)</p> <p>S7 TX skill* N1 mix* (6,964)</p> <p>S6 TX skillmix* (64)</p> <p>S5 S1 OR S2 OR S3 OR S4 (13,841)</p> <p>S4 emergency N5 nurs* (13,204)</p>	
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	<p>S3 (MH "Emergency Nurses Association") (389)                  S2 (MH "Emergency Nursing+") (11,617)                  S1 (MH "Emergency Nurse Practitioners") (246)</p>	
<p>ECONLIT                  Ebsco Host                  Searched                  26/08/2014                  Keywords:                  ECONLIT                  EMERGENCY                  NURSING SAFE                  STAFFING SEARCH                  KW</p>	<p>S5 S1 OR S2 OR S3 (26)                  S4 TX (ER and nurs*) (3)                  S3 hospital and emergency and nurs* (23)                  S2 (TX emergency N5 nurs* AND TX ( (ward* or room* or unit*)) (3)                  S1 TX nurs* and emergency (26)</p>	<p>26</p>
<p>Cochrane Library                  CDSR                  DARE                  CENTRAL                  HTA                  NHSEED                    Searched                  26/08/2014                  Keywords:                  COCHRANE CDSR                  COCHRANE CENTRAL                  COCHRANE HTA                  COCHRANE NHSEED                  CRD NHSEED                  EMERGENCY                  NURSING SAFE                  STAFFING SEARCH                  KW</p>	<p>#1 MeSH descriptor: [Emergency Service, Hospital] explode all trees (1796)                  #2 (nurse or nurses or nursing):ti,ab (12778)                  #3 (RN or "RNs" or "RN's"):ti,ab (173)                  #4 MeSH descriptor: [Nurses' Aides] this term only (51)                  #5 ("healthcare assistant*" or "health care assistant*") (46)                  #6 MeSH descriptor: [Nursing Administration Research] this term only (35)                  #7 MeSH descriptor: [Nursing Audit] this term only (49)                  #8 MeSH descriptor: [Models, Nursing] this term only (159)                  #9 #2 or #3 or #4 or #5 or #6 or #7 or #8 (12982)                  #10 #1 and #9 (174)                  #11 MeSH descriptor: [Emergency Nursing] this term only (58)                  #12 #10 or #11 (210)                  #13 MeSH descriptor: [Personnel Staffing and Scheduling] this term only (108)                  #14 skill* near/3 mix* (69)</p>	<p>CDSR 7                  DARE 7                  CENTRAL 73                  HTA 1                  NHSEED 7    <b>(Plus 3 from CRD NHSEED unique items added. Total N-98)</b></p>



**Literature Search Strategy: Safe Staffing in ED**

	<p>#15 staff* near/3 mix* (31)          #16 staffing (9551) (9551)          #17 (understaff* or "under staff*") (13)          #18 ((staff* or team) near/3 (experienced or inexperienced or competen* or sufficient* or sufficiency or adequate* or knowledge or adequac* or target* or insufficient* or insufficienc* or inadequate* or inadequac* or short or shortage or efficient* or efficienc* or inefficien*)) (585)          #19 ((staff* or team) near/3 (level* or ratio* or management or resourc* or model* or program* or policy or policies or number* or mix* or rota* or rosta* or roster* or schedul* or overtime or supervision or supervisory or administration or administrative or organization or organisation or turnover or "co-ordination")) (2164)          #20 MeSH descriptor: [Health Manpower] this term only (12)          #21 manpower (526)          #22 (workload* or workforce* or shift or shiftwork* or shifts or overtime or capacity):ti,ab (19549)          #23 MeSH descriptor: [Burnout, Professional] this term only (131)          #24 burnout (255)          #25 #13 or #14 or #15 or #16 or #17 or #18 or #19 or #20 or #21 or #22 or #23 or #24 (29971)          #26 #12 and #25 (73)          #27 NHPPD (0)          #28 "nursing hours" (14)          #29 nurse* near/3 "patient ratio*" (48)          #30 "nurse-patient ratio*" (29)          #31 nurs* near/2 staffing (1685)          #32 ("nurs* unit*" and (organi?ation or characteristic* or outcome* or level*)) (80)</p>	
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**Literature Search Strategy: Safe Staffing in ED**

	<p>#33 nurs* near/5 burnout (28)                  #34 nurs* near/5 stress (251)                  #35 nurs* near/5 fatigue (68)                  #36 nurs* and magnet and staffing (39)                  #37 (nurs* and (skillmix* or "skill mix*" or "staffmix*" or "staff mix*")) (55)                  #38 (nurs* and ("patient dependency" or "patient acuity")) (24)                  #39 #27 or #28 or #29 or #30 or #31 or #32 or #33 or #34 or #35 or #36 or #37 or #38 (2143)                  #40 #1 and #39 (35)                  #41 #26 or #40 Publication Year from 1994 to 2014, in Other Reviews, Trials, Technology Assessments and Economic Evaluations (79)                  #42 ("emergency nurs*" and staffing) Publication Year from 1994 to 2014 (42)                  #43 #41 or #42 (97)                  #44 #12 and #39 Publication Year from 1994 to 2014 (24)                  #45 #43 or #44 (95)</p> <p>(nhseed searched in CRD Yok database and 3 records added in)</p>	
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